



DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2022-1654; Project Identifier MCAI-2022-01165-T; Amendment 39-22390; AD 2023-06-04]

RIN 2120-AA64

Airworthiness Directives; Bombardier, Inc., Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: The FAA is adopting a new airworthiness directive (AD) for certain Bombardier, Inc., Model CL-600-1A11 (600), CL-600-2A12 (601), and CL-600-2B16 (601-3A, 601-3R, and 604 Variants) airplanes. This AD was prompted by reports of some passenger oxygen mask dispensing units (MDUs) with lanyards that are too long to meet the proper length specifications of the airplane. This AD requires replacing the affected MDUs with units that meet the proper length specifications, replacing the placards, and re-identifying the assemblies. The FAA is issuing this AD to address the unsafe condition on these products.

DATES: This AD is effective [INSERT DATE 35 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

The Director of the Federal Register approved the incorporation by reference of certain publications listed in this AD as of [INSERT DATE 35 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

ADDRESSES:

AD Docket: You may examine the AD docket at [regulations.gov](https://www.regulations.gov) under Docket No. FAA-2022-1654; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday

through Friday, except Federal holidays. The AD docket contains this final rule, the mandatory continuing airworthiness information (MCAI), any comments received, and other information. The address for Docket Operations is U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590.

Material Incorporated by Reference:

- For service information identified in this final rule, contact Bombardier Business Aircraft Customer Response Center, 400 Côte-Vertu Road West, Dorval, Québec H4S 1Y9, Canada; telephone 514-855-2999; email ac.yul@aero.bombardier.com; website bombardier.com.
- You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195. It is also available at regulations.gov under Docket No. FAA-2022-1654.

FOR FURTHER INFORMATION CONTACT: Elizabeth M. Dowling, Aerospace Engineer, Mechanical Systems and Administrative Services Section, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-228-7300; email 9-avs-nyaco-cos@faa.gov.

SUPPLEMENTARY INFORMATION:

Background

The FAA issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 by adding an AD that would apply to certain Bombardier, Inc., Model CL-600-1A11 (600), CL-600-2A12 (601), and CL-600-2B16 (601-3A, 601-3R, and 604 Variants) airplanes. The NPRM published in the *Federal Register* on December 27, 2022 (87 FR 79259). The NPRM was prompted by AD CF-2022-50, dated August 25, 2022, issued by Transport Canada, which is the aviation authority for Canada (referred to after this as the

MCAI). The MCAI states that lanyards of passenger mask dispensing units installed in the affected airplanes are too long to meet the proper length specifications of the aircraft. This condition, if not corrected, could result in the inability to initiate the flow of oxygen to the mask when required in an emergency situation, with no indication to the passenger that they are not receiving oxygen.

In the NPRM, the FAA proposed to require replacing the affected MDUs with units that meet the proper length specifications, replacing the placards, and re-identifying the assemblies. The FAA is issuing this AD to address the unsafe condition on these products.

You may examine the MCAI in the AD docket at [regulations.gov](https://www.regulations.gov) under Docket No. FAA-2022-1654.

Discussion of Final Airworthiness Directive

Comments

The FAA received no comments on the NPRM or on the determination of the cost to the public.

Conclusion

This product has been approved by the aviation authority of another country and is approved for operation in the United States. Pursuant to the FAA's bilateral agreement with this State of Design Authority, it has notified the FAA of the unsafe condition described in the MCAI referenced above. The FAA reviewed the relevant data and determined that air safety requires adopting this AD as proposed. Accordingly, the FAA is issuing this AD to address the unsafe condition on this product. Except for minor editorial changes, this AD is adopted as proposed in the NPRM. None of the changes will increase the economic burden on any operator.

Related Service Information under 1 CFR Part 51

The FAA reviewed following Bombardier service information, which specifies procedures for identifying part numbers of the drop-down oxygen boxes, performing drop-down oxygen mask reach testing, marking failed seats as inoperative with placards, and replacing affected oxygen masks:

- Service Bulletin 600-0777, dated December 13, 2021.
- Service Bulletin 601-1109, Revision 01, dated May 6, 2022.
- Service Bulletin 604-35-007, Revision 01, dated May 6, 2022.

These documents are distinct since they apply to different airplane models. This service information is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in the ADDRESSES section.

Costs of Compliance

The FAA estimates that this AD affects 301 airplanes of U.S. registry. The FAA estimates the following costs to comply with this AD:

Estimated costs for required actions

Labor cost	Parts cost	Cost per product	Cost on U.S. operators
1 work-hour X \$85 per hour = \$85	\$0	\$85	\$25,585

The FAA estimates the following costs to do any necessary on-condition actions that would be required based on the results of any required actions. The FAA has no way of determining the number of aircraft that might need these on-condition actions:

Estimated costs of on-condition actions

Labor cost	Parts cost	Cost per product
2 work-hours X \$85 per hour = \$170	\$100	\$270

Authority for this Rulemaking

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency's authority.

The FAA is issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: General requirements. Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

Regulatory Findings

This AD will not have federalism implications under Executive Order 13132. This AD will not have a substantial direct effect on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify that this AD:

- (1) Is not a "significant regulatory action" under Executive Order 12866,
- (2) Will not affect intrastate aviation in Alaska, and
- (3) Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

The Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA

amends 14 CFR part 39 as follows:

PART 39 - AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

2. The FAA amends § 39.13 by adding the following new airworthiness directive:

2023-06-04 Bombardier, Inc.: Amendment 39-22390; Docket No. FAA-2022-1654;

Project Identifier MCAI-2022-01165-T.

(a) Effective Date

This airworthiness directive (AD) is effective [INSERT DATE 35 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

(b) Affected ADs

None.

(c) Applicability

This AD applies to Bombardier, Inc., airplanes, certificated in any category, with serial numbers as identified in the service information specified in paragraphs (c)(1) through (4) of this AD.

(1) Model CL-600-1A11 (600) airplanes: Bombardier Service Bulletin 600-0777, dated December 13, 2021.

(2) Model CL-600-2A12 (601) airplanes: Bombardier Service Bulletin 601-1109, Revision 01, dated May 6, 2022.

(3) Model CL-600-2B16 (601-3A, 601-3R) airplanes: Bombardier Service Bulletin 601-1109, Revision 01, dated May 6, 2022.

(4) Model CL-600-2B16 (604) airplanes: Bombardier Service Bulletin 604-35-007, Revision 01, dated May 6, 2022.

(d) Subject

Air Transport Association (ATA) of America Code 35, Oxygen System.

(e) Unsafe Condition

This AD was prompted by reports of passenger oxygen mask dispensing units installed in the affected airplanes with lanyards that are too long to meet the proper length specifications of the airplane. The FAA is issuing this AD to address the inability to initiate flow of oxygen to the mask. The unsafe condition, if not addressed, could result in no indication to the passenger that they are not receiving oxygen in an emergency situation.

(f) Compliance

Comply with this AD within the compliance times specified, unless already done.

(g) Inspection and Replacement

Within 5 years after the effective date of this AD, determine the part number of the drop-down oxygen box, in accordance with Section 2.B. of the Accomplishment Instructions of the applicable service information identified in paragraphs (c)(1) through (4) of this AD.

(1) If any drop-down oxygen box part number (P/N) installed on the airplane matches any P/N listed in Table 1 of Section 2.B. of the applicable service information: Before further flight, perform drop-down oxygen mask reach testing in accordance with Section 2.B.(2) of the Accomplishment Instructions of the applicable service information identified in paragraphs (c)(1) through (4) of this AD.

(i) If the test result is PASS: Before further flight, replace the drop-down oxygen box assembly in accordance with Section 2.C., and test the passenger oxygen supply system in accordance with Section 2.D.(2), of the applicable service information identified in paragraphs (c)(1) through (4) of this AD.

(ii) If the test result is FAIL for any individual seat: Before further flight, mark the failed seat as inoperative in accordance with Section 2.B.(3) of the applicable service information specified in paragraphs (c)(1) through (4) of this AD.

(2) If the part number of any drop-down oxygen box assembly installed on the airplane is not found in Table 1 of Section 2.B. of the applicable service information identified in paragraphs (c)(1) through (4) of this AD: Before further flight, do actions to correct the unsafe condition using a method approved in accordance with the procedures specified in paragraph (i)(1) of this AD.

(h) Credit for Previous Actions

This paragraph provides credit for actions required by paragraph (g) of this AD, if those actions were performed before the effective date of this AD using Bombardier Service Bulletin 601-1109, dated December 13, 2021; or Bombardier Service Bulletin 604-35-007, dated December 13, 2021; as applicable.

(i) Additional AD Provisions

The following provisions also apply to this AD:

(1) *Alternative Methods of Compliance (AMOCs)*: The Manager, New York ACO Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or responsible Flight Standards Office, as appropriate. If sending information directly to the manager of the New York ACO Branch, mail it to ATTN: Program Manager, Continuing Operational Safety, at the address identified in paragraph (j)(2) of this AD or email to: 9-avs-nyaco-cos@faa.gov. If mailing information, also submit information by email. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the responsible Flight Standards Office.

(2) *Contacting the Manufacturer*: For any requirement in this AD to obtain

instructions from a manufacturer, the instructions must be accomplished using a method approved by the Manager, New York ACO Branch, FAA; or Transport Canada; or Bombardier, Inc.'s Transport Canada Design Approval Organization (DAO). If approved by the DAO, the approval must include the DAO-authorized signature.

(j) Additional Information

(1) Refer to Transport Canada AD CF-2022-50, dated August 25, 2022, for related information. This Transport Canada AD may be found in the AD docket at [regulations.gov](https://www.regulations.gov) under Docket No. FAA-2022-1654.

(2) For more information about this AD, contact Elizabeth M. Dowling, Aerospace Engineer, Mechanical Systems and Administrative Services Section, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-228-7300; email 9-avs-nyaco-cos@faa.gov.

(3) Service information identified in this AD that is not incorporated by reference is available at the addresses specified in paragraphs (k)(3) and (4) of this AD.

(k) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless this AD specifies otherwise.

(i) Bombardier Service Bulletin 600-0777, dated December 13, 2021.

(ii) Bombardier Service Bulletin 601-1109, Revision 01, dated May 6, 2022.

(iii) Bombardier Service Bulletin 604-35-007, Revision 01, dated May 6, 2022.

(3) For service information identified in this AD, contact Bombardier Business Aircraft Customer Response Center, 400 Côte-Vertu Road West, Dorval, Québec

H4S 1Y9, Canada; telephone 514-855-2999; email ac.yul@aero.bombardier.com; website bombardier.com.

(4) You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, email fr.inspection@nara.gov, or go to: www.archives.gov/federal-register/cfr/ibr-locations.html.

Issued on March 14, 2023.

Christina Underwood, Acting Director,
Compliance & Airworthiness Division,
Aircraft Certification Service.

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